

ABSTRACT OF THE DISCLOSURE

A distance measuring system, which comprises a control arithmetic unit 1, a light emitting unit 2 for emitting a measuring light beam and a photodetection unit 3 for receiving a reflection light beam from an object to be measured, and said system being used for measuring a distance by receiving said reflection light beam from said object to be measured, wherein said control arithmetic unit compares a signal based on photodetection amount of the light from said object to be measured as well as a result of distance measurement with a reference data prestored in said control arithmetic unit relating to reflection of said object to be measured, and judges said object to be measured based on a result of the comparison.